

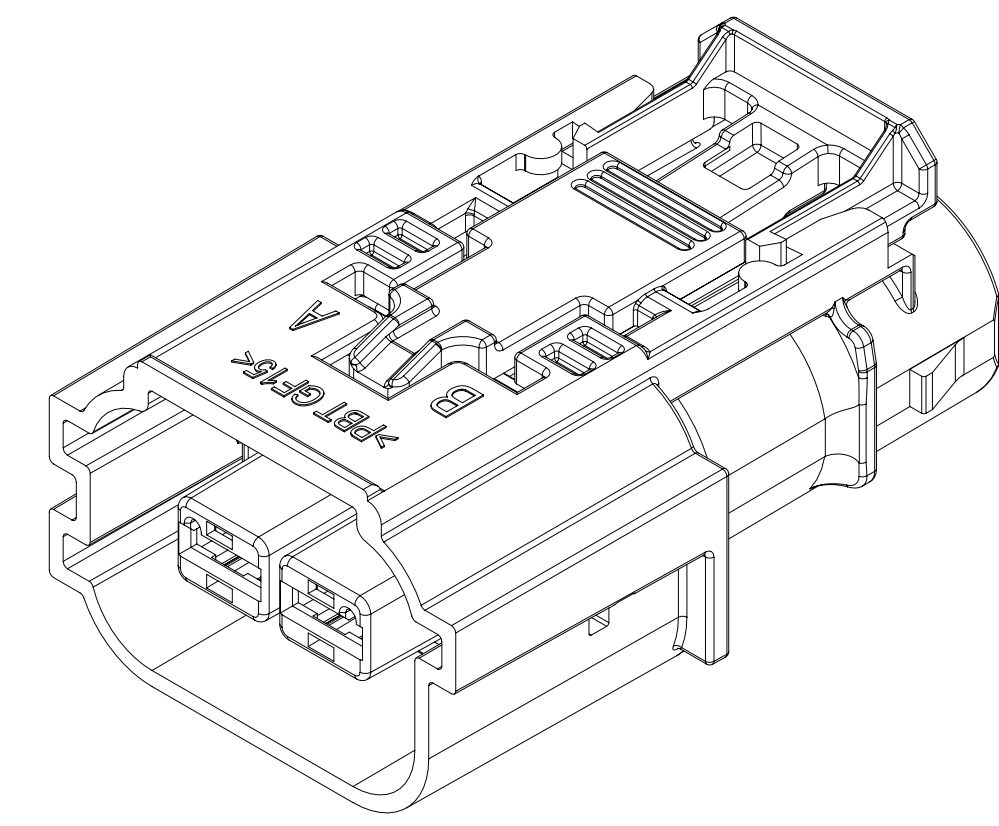
INNER CONNECTOR WITH SHIELDS MUST BE RETAINED IN OUTER HOUSING ASM

2X SHIELD - SEE CHART

OUTER HOUSING - SEE CHART

INNER CONNECTOR - SEE CHART

5.8 ALL AROUND SEALING SURFACE MUST BE FREE OF DEFECTS, PARTING LINES, MOLD MISMATCH AND BLEMISHES



#### NOTES

- UNLESS OTHERWISE SPECIFIED AND/OR INDICATED:  
DIMENSIONS ARE TO FACE OF VIEW SHOWN AND AUTOMATICALLY ROUNDED BY COMPUTER FOR INSPECTION (SEE MATH MODEL FOR PRECISE DIMENSIONS). FOR ALL OTHER DIMENSIONS NOT SHOWN BUT REQUIRED FOR TOOL BUILD, SEE MATH MODEL FOR PRECISE TOOL PATH DATA.
- CONNECTION SYSTEM IS VALIDATED ON APTIV M4488 HV SHIELDED CABLE AND MEETS THE PERFORMANCE REQUIREMENTS OF SAE/USCAR-2 R6.2013, SAE/USCAR-37 AUGUST 2008 AND GMW-3191 JUNE 2012 FOR THE FOLLOWING CLASSIFICATIONS:  
TEMPERATURE CLASS 3 (-40° C TO 125° C)  
VIBRATION CLASS ON BODY OR CHASSIS  
SEALING CLASS 3 (SEALED PLUS HIGH PRESSURE SPRAY)  
MATING CLASS 2 (50 CYCLES)
- CONNECTOR DESIGNS PROVIDE THE FOLLOWING MINIMUM CREEPAGE DISTANCES WHEN MATED, AS ASSESSED PER IEC60664 WITH POLLUTION DEGREE = 2 OR 3:  
-CAVITIES A TO SHIELD OR B TO SHIELD = 6.755 mm  
-CAVITIES A TO B (WITHOUT MATING PART) = 13.51 mm
- HARNES MANUFACTURER IS RESPONSIBLE FOR VALIDATING THE CONNECTION AS APPLIED ON CABLE TO THE REQUIREMENTS OF SPECIFIC APPLICATIONS.
- FOR APPLICATION DATA SEE THE INDIVIDUAL APPLICATION DRAWINGS.
- CONNECTION MEETS DIELECTRIC WITHSTAND VOLTAGE RATING OF 600 VOLTS USING SAE/USCAR-37 AUGUST 2008 PARAGRAPH 5.5.2 TEST METHOD.
- SEALING APPLICATION AND MARKING REQUIRED PER ES-A-755.
- ELECTRIC VEHICLE CHARGING AND OTHER HIGH DUTY CYCLE APPLICATIONS CARRYING 25A REQUIRE THE FOLLOWING:  
-MIN 5.0 MM COPPER CONDUCTORS.  
-TERMINAL TO CONDUCTOR INTERFACE RESISTANCE ≤ 0.2 mΩms, SOLDERED CRIMPS ARE RECOMMENDED.  
-TERMINAL TEMPERATURES NEED TO BE MEASURED IN THE VEHICLE APPLICATION TO INSURE 1-RISE OVER AMBIENT IS <35 °C AT MAXIMUM CONTINUOUS CURRENT.
- FOR ADDITIONAL CABLE AND COMPONENTS INFORMATION SEE SHT 2.
- PARTS MUST BE FREE OF DUST, DIRT, CARBON FIBER, LOOSE METAL SLIVERS OR ANY PARTICULATE THAT MAY CAUSE FIT OR FUNCTION CONCERNS.
- SEALING CODE 4 - DESIGN WILL MEET REQUIREMENTS OF SAE/USCAR-2 CONNECTOR SYSTEM ENVIRONMENTAL TEST FLOWCHART (PRESSURE/VACUUM AND SUBMERSION).
- FOR ASSEMBLY MANUAL REFER TO P/N 35328287.

PART NO	REV	N/P	TYPE	OUTER HOUSING	SEAL RETAINER	SEAL	INNER CONNECTOR	SHIELD (2 PLCS)	CPA
35228588	01	AF	105	33353306	33339161	35102769	35028838	35149967	33125204
35028842	01	AF	104	33353305	33339161	35102769	35028838	35149967	33125204
35028841	01	AF	103	33353304	33339161	35102769	35028838	35149967	33125204
35028840	01	AF	102	33353303	33339161	35102769	35028838	35149967	33125204
35028839	01	AF	101	33339160	33339161	35102769	35028838	35149967	33125204

#### SYMBOL DEFINITION

A DIMENSION WITHOUT AN INSPECTION REPORT SYMBOL DOES NOT REQUIRE INSPECTION. IT MAY BE CONTROLLED ON THE INDIVIDUAL COMPONENT DRAWING.

#### TOTAL NO. OF INSPECTIONS REQUIRED

32

#### LAST NO. USED

32

#### MISSING SYMBOLS

10-12

		<b>(30)</b> PROCESS SENSITIVE DIMENSION						
		DIMENSIONS ENCLOSED IN ( ) INDICATE REFERENCE DIMENSIONS AND NO TOLERANCE LIMITS ARE ESTABLISHED						
DIMENSIONAL RANGE (MM)		CHART						
FROM	> 0	> 30	> 100	> 150	> 200	> 250	> 300	> 400
TOLERANCE UNLESS OTHERWISE SPECIFIED								
+0.15		+0.2	+0.3	+0.4	+0.5	+0.6	+0.8	+1
		ANGULAR TOLERANCE ±2°						

DATE	REV	N/P	CHK
20SE18	R	01	-
30OC18	R	02	-

DATE	REV	N/P	CHK
20SE18	R	01	-
30OC18	R	02	-

DATE	REV	N/P	CHK
20SE18	R	01	-
30OC18	R	02	-

DATE	REV	N/P	CHK
20SE18	R	01	-
30OC18	R	02	-

DATE	REV	N/P	CHK
20SE18	R	01	-
30OC18	R	02	-

DATE	REV	N/P	CHK
20SE18	R	01	-
30OC18	R	02	-

DATE	REV	N/P	CHK
20SE18	R	01	-
30OC18	R	02	-

44885023

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Aptiv:](#)  
[35028841](#)